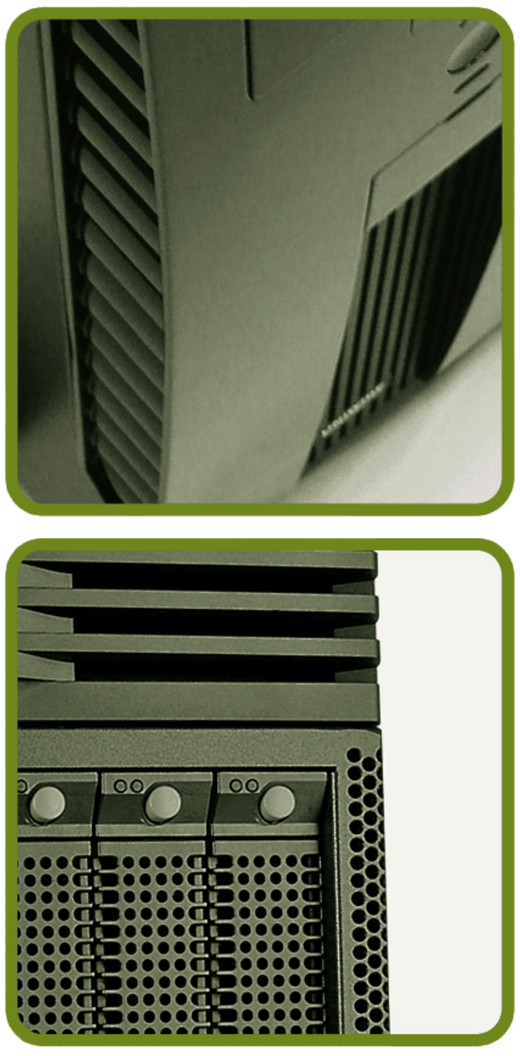
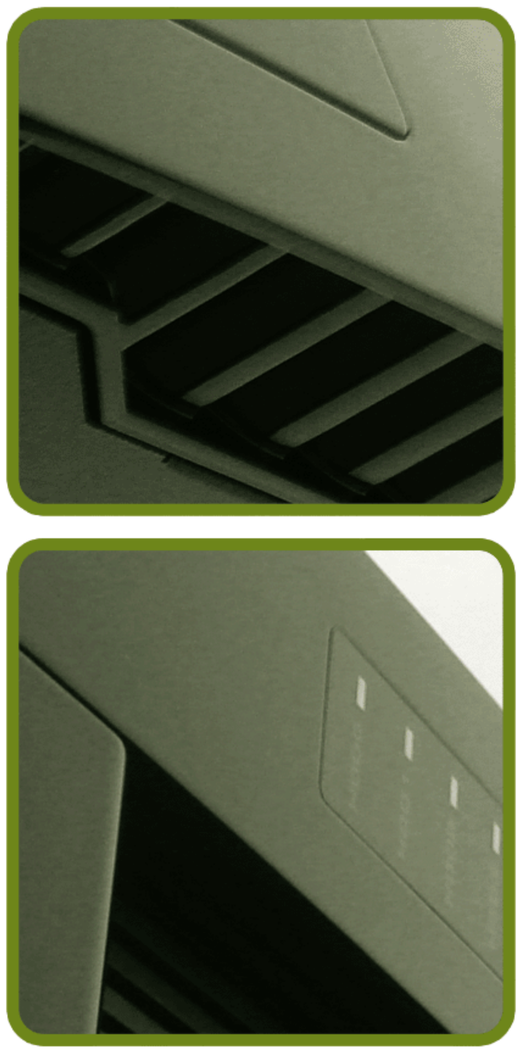
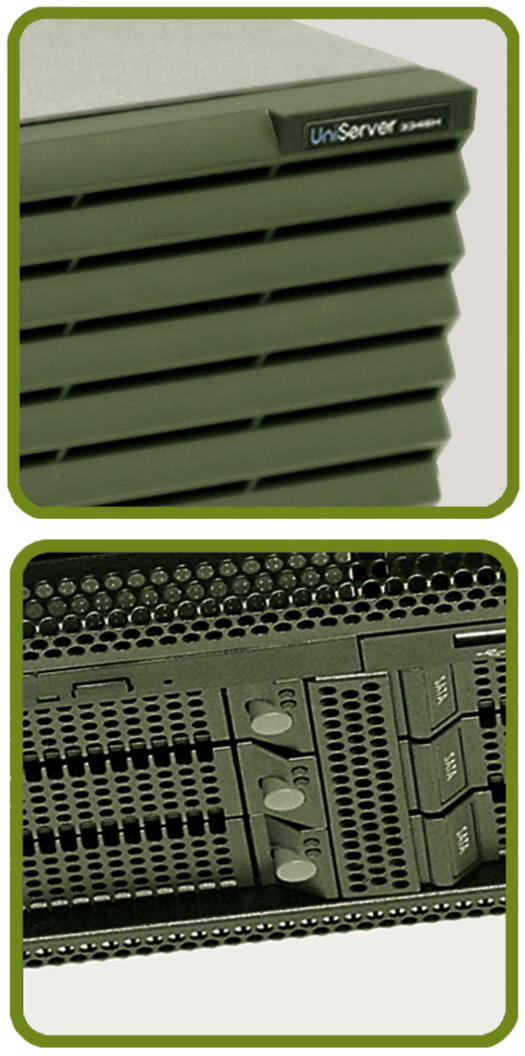




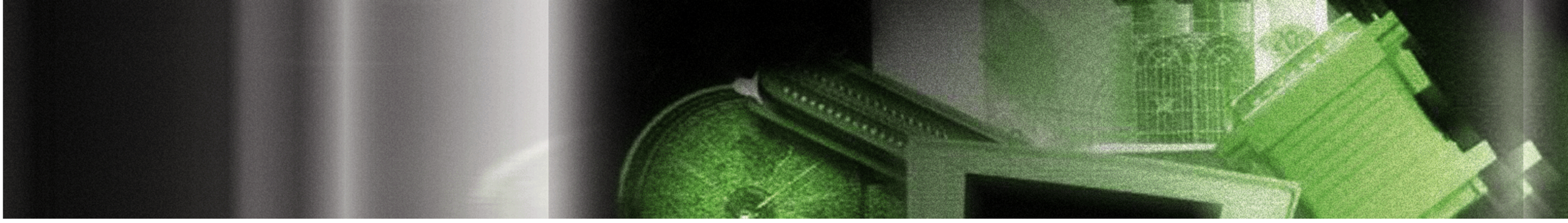


The world's most powerful & scalable workstation solutions

UniWorkstation

More Powerful, More Energy-Efficient

UNIWIDE Technologies



UniWorkstation

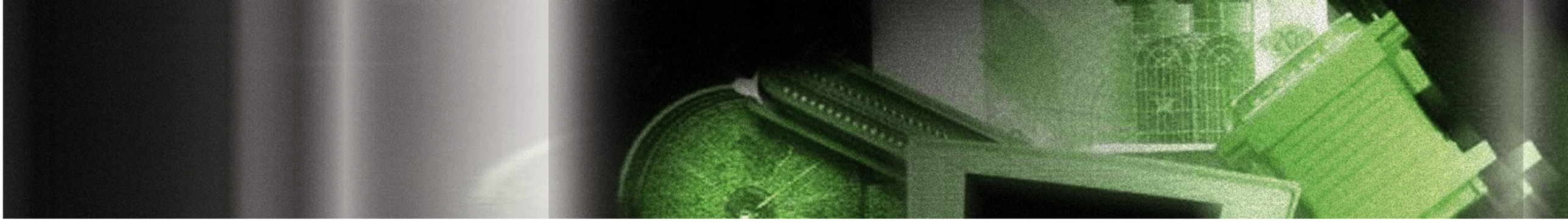
UniWorkstation is a feature rich, highly advanced workstation platform that will ensure increased productivity. UniWorkstation has the power to process, transfer and display huge amount of data that would overwhelm the competing workstations in the market . Tightly packaged into a mid-tower pedestal configuration, performance enhancing features such as 4-way, 8 DIMM per CPU, SATA II or SAS with striping, and SLI supported GPU will surely accelerate your performance.

For the most demanding processing and graphics intensive applications, UniWorkstation platform will meet and surpass expectations. Often times, workstations are integrated using combination of desktop and server components, thus, excelling in certain area of computing but lack in other. UniWorkstation is a tightly integrated, full-featured platform that can excel in all aspects of performance requirements of a powerful workstation.

The key objective for UniWorkstation is to overcome the major areas that are often bottleneck. UniWorkstation starts the latest AMD Opteron processor for socket F (1207), Opteron main board. When additional processing power is needed, 2-way can be scaled to 4-way configuration by plugging in a CPU & Memory board. In addition, 8 DDR2 667MHz DIMM sockets are supported per CPU. This first-in-industry feature increases the performance/value mix by reducing the cost of system memory by up to 100% over competition.

In line with extreme processing and data buffering capability, UniWorkstation has built-in SATA with RAID 0, 1, 1E, maximizing on disk I/O with striping data across multiple disks. For those preferring SAS devices, SAS channel with RAID option is available. Data transfer is optimized with on-board dual PCI-Express Gigabit Ethernet ports.

With 3 PCI Express slots, SLI is supported, aggregating dual GPU's and delivering world-class graphics performance. Last but not least, UniWorkstation employs cable-less and tool-less integration. This well thoughtout packaging keeps all components ultra cool and easy to maintain, thus, optimizing on reliability and TCO.



Standard Features:
- Support 2way / 4way AMD Opteron™ processor for socket F (1207)
- 8 DDR2 DIMM sockets per CPU, max. up to 128GB of memory
- Support up to 3 PCI-Express and 3 PCI-X expansion slots.
- Support up to 6 hot swap SATA II or SAS drive support
- On-board RAID 0, 1, 1E for SATA II or SAS drives
- hot swap (N+1), 500W power supplies
- Dedicated BMC service processor for Server Dome.
- Hot swap cooling fans
- Cable-less and tool-less design
- EIA, 19" rack mount standard
- CPU heat sinks and air plenum
- Slide rails

Optional Features:
- FDD, CD/DVD Combo or DVD RW kit
- Slim FDD kit
- Additional hot swap, redundant, 500W PSU
- KVM over IP module

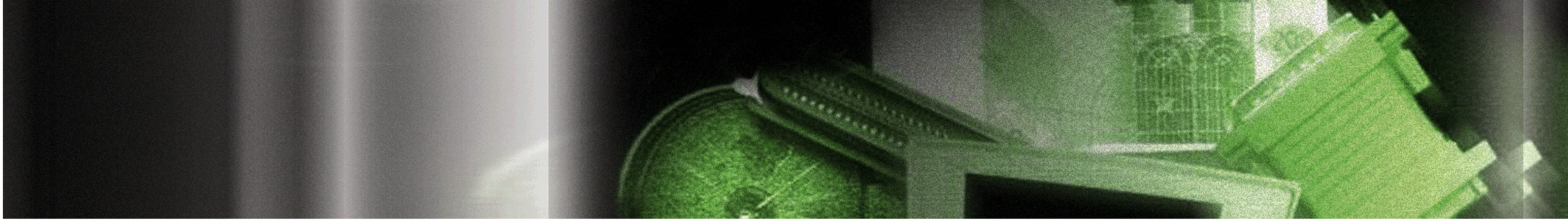
Performance
Capable of supporting 2-way or 4-way, AMD Opteron processor for socket F (1207), 64-bit Opteron processors with integrated memory controller is unsurpassed in processing power. In addition, up to 8 DIMM sockets per CPU provides up to double the memory capacity of any current 64-bit server platform available in the market.

Scalability
Scaling from 2-way to 4-way CPU configuration is done by adding a CPU & Memory board. Up to 6 hot swap SATA II or SAS hard disk drives offers Terabytes of internal storage capacity. Simultaneous support for PCI-Express (up to three) and PCI-X slots (up to three) can accommodate various add-on cards to meet the I/O demand increase on as-needed-basis.

Availability
UniWorkstation is full featured, highly available workstation platform. Most commonly failed components such as HDD, PSU and fans are hot swap, redundant. In the case of SATA devices, RAID 0, 1, and 1E is a standard feature. Dual PCI-Express Gigabit Ethernet can be aggregated for increased throughput as well as fail-over.

Reliability
Over ten years of high-end system design experience and recent utilization of cable-less & tool-less integration makes the UniWorkstation the coolest running system. This advancement in integration method completely eliminates failure due to component life degradation due to excessive heat or aging of various cables.

Value
The reduced cost of the memory is up to 100% when configuring 16GB per CPU. Furthermore, higher performing, Dual Core, Opteron based systems require 37.5% less number of systems compared to competition as well as reduced power consumption.



UniWorkstation 5528

Model SKUs

UniWorkstation 5528ES

- 2way SAS Workstation powered by AMD Opteron™ processor for socket F (1207)
  NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset
  16 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4),
  2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100,
  VGA 16MB, 8 x hot swap SAS HDDs

UniWorkstation 5528VA

- 2way SATA Workstation powered by AMD Opteron™ processor for socket F (1207)
  NVIDIA 2200 chipset, 16 DDR-2 DIMMs,
  1 x PCI-E(x4), 2 x Gigabit & 1 x 10/100,
  VGA 16MB, 8 x hot swap SATA HDDs

Processors

- Supports 2way AMD Opteron™ processors for Socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset

- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory

- 128-bit dual channel memory bus
- Supports 16 DIMM slots (8 DIMM per CPU)
- max. 64GB memory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller

- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- Integrated four SATA 3.0Gbs ports with NVRAID: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller

- supports integrated mirroring/stripping and ZCR function

Drive Bays

- Supports two 5.25" CD-ROM and 3.5" FDD
- Supports eight hot-swap SATA II or SAS HDD (optional)

Graphics

- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface

- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers

- support PXE function

Rear Input/Output

- One VGA port, One serial port, Two PS/2 connectors, Two RJ45 Gigabit ports,
  Two USB2.0 connectors, ID LED, Two Dip switchs,One SPDIF port
  One SAS External connector (SAS model only), One TI IEEE 1394a (FireWire) port

Front Panel

- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power,
  Two USB 2.0 connectors One TI IEEE 1394a (FireWire) port,
  One MIC and One Headphone

PCI Expansion Slots

- Two PCI-Express x16 slots with NVIDIA SLI technology,
- One PCI-Express X4 in X16 slot
- Three PCI-X 64-bit 133/100/66 MHz slots

Power Supply

- 110~220VAC, auto-sensing, 750W single PS with PFC

Cooling

- Two hot-swap front cooling fans and two hot-swap rear cooling fans

Dimension (HxWxD)

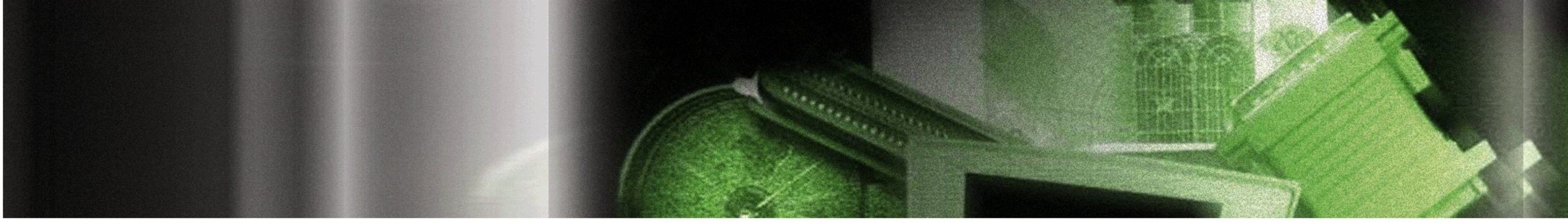
- Pedestal Type, 131.0x 430.0 x 698.0 mm(5.2 x 16.9 x 27.5 inch)

Environment

- Operating: 10 to 35 , Storage: 70 max

Server Management

- Integrated server management (IPMI 2.0 on-board)
- KVM-over-IP (Optional)



UniWorkstation 5548

Model SKUs
UniWorkstation 5528ES
- 4way SAS Workstation powered by AMD Opteron™ processor for socket F (1207)
NVIDIA 2200 + NVIDIA 2050 + AMD 8132 chipset
32 DDR-2 DIMMs, 3 x 64/133 PCI-X, 1 x PCI-E(x4),
2 x PCI-E(x16), 2 x Gigabit & 1 x 10/100,
VGA 16MB, 8 x hot swap SAS HDDs

Processors
- Supports 4way AMD Opteron™ processors for Socket F (1207)
- Integrated 128-bit registered DDR2 memory controller

Chipset
- AMD 8132 PCI-X Tunnel chipset
- NVIDIA nForce4 Professional 2200
- NVIDIA nForce4 Professional 2050
- ADM 1026 hardware monitoring IC

Memory
- 128-bit dual channel memory bus
- Supports 32 DIMM slots (8 DIMM per CPU)
- max. 128GB memory capacity
- Registered ECC DDR2 400/533/667 SDRAM

Disk Controller
- Integrated single-channel ATA 133/100/66: nForce4 Professional 2200
- On-board LSI 1068 PCI-X SAS controller
- supports integrated mirroring/stripping and ZCR function

Drive Bays
- Supports two 5.25" CD-ROM and 3.5" FDD
- Supports eight hot-swap SAS HDD

Graphics
- XGI Volari Z9 VGA chip, 16MB memory size

Network Interface
- Dual Broadcom 5721 PCI-Express X1 Gigabit controllers
- support PXE function

Rear Input/Output
- One VGA port, One serial port, Two PS/2 connectors, Two RJ45 Gigabit ports, Two USB2.0 connectors, ID LED, Two Dip switchs,One SPDIF port
One SAS External connector, One TI IEEE 1394a (FireWire) port

Front Panel
- LED: Power, LAN1, LAN2, System Fail, System ID Switch: Reset, Power,
Two USB 2.0 connectors One TI IEEE 1394a (FireWire) port,
One MIC and One Headphone

PCI Expansion Slots
- Two PCI-Express x16 slots with NVIDIA SLI technology,
- One PCI-Express X4 in X16 slot
- Three PCI-X 64-bit 133/100/66 MHz slots

Power Supply
- 110~220VAC, auto-sensing, 1100W single or 1000W redundant PS with PFC (optional)

Cooling
- Two hot-swap front cooling fans and two hot-swap rear cooling fans

Dimension (HxWxD)
- Pedestal Type, 131.0x 430.0 x 698.0 mm(5.2 x 16.9 x 27.5 inch)

Environment
- Operating: 10 to 35 , Storage: 70 max

Server Management
- Integrated server management (IPMI 2.0 on-board)
- KVM-over-IP (Optional)